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(54) MANUFACTURE OF HIGH-STRENGTH OIL WELL TUBE EXCELLENT IN CORROSION RESISTANCE

(57) Abstract:

PURPOSE: To manufacture a high-strength oil well tube excellent in corrosion resistance by successively applying respective treatments of hardening, tempering, plastic working, hardening, and tempering to a low alloy steel tube with a specific composition under respectively specified conditions.

CONSTITUTION: Hardening is applied at 880-980°C

to a tube of low alloy steel consisting of, by weight, 0.15-0.45% C, 0.1-1% Si, 0.3-1.8% Mn, 0.01-0.07% SolAl, 0.0025-0.01% Ni, and the balance essentially Fe. Subsequently, tempering is applied to the above tube at 600-730°C, and also, plastic working is applied in the above temp. region once or plural times so that the total amount of strain reaches 1-20%. Further, the above tube is subjected to hardening at 800-950°C and to tempering at 600-730°C. By this method, the high-strength oil well tube excellent in corrosion resistance, particularly in sulfide stress corrosion cracking resistance, can be manufactured.

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